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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/834,024	04/11/2001	Wendell B. Sander	034942-219	5258
75	90 11/18/2004		EXAMINER	
ROBERT E. KREBS			NGUYEN, LEE	
THELEN REID & PRIEST LLP P.O. BOX 640640			ART UNIT	PAPER NUMBER
SAN JOSE, CA			2682	
			DATE MAILED: 11/18/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	16/			
Office Action Summary		09/834,024	SANDER ET AL.	•			
		Examiner	Art Unit				
		LEE NGUYEN	2682				
Period fo	The MAILING DATE of this communication Reply	on appears on the cover sheet v	vith the correspondence addres	SS			
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT nsions of time may be available under the provisions of 37 (s) (6) MONTHS from the mailing date of this communicate period for reply specified above is less than thirty (30) days to period for reply is specified above, the maximum statutory are to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	CION. CFR 1.136(a). In no event, however, may a ion. s, a reply within the statutory minimum of th period will apply and will expire SIX (6) MC y statute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this commu ABANDONED (35 U.S.C. § 133).	nication.			
Status							
1)	Responsive to communication(s) filed on	28 June 2004.		,			
2a)□	This action is FINAL . 2b)∑						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
	· · · · · · · · · · · · · · · · · · ·	thdrawn from consideration. ejected. to.		^			
Applicat	ion Papers						
9)[The specification is objected to by the Ex	aminer.					
10)	The drawing(s) filed on is/are: a)	☐ accepted or b)☐ objected to	by the Examiner.				
	Applicant may not request that any objection						
11)[Replacement drawing sheet(s) including the of the oath or declaration is objected to by	·	- ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '				
Priority :	under 35 U.S.C. § 119						
а)	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International Election for	uments have been received. uments have been received in a e priority documents have bee Bureau (PCT Rule 17.2(a)).	Application N o n received in this National Sta	ge			
Attachmer	nt(s)	,		,			
	ce of References Cited (PTO-892)		Summary (PTO-413)				
3) 🛛 Infor	ce of Draftsperson's Patent Drawing Review (PTO-9 mation Disclosure Statement(s) (PTO-1449 or PTO/ er No(s)/Mail Date <u>12/03, 07/04</u> .		o(s)/Mail Date Informal Patent Application (PTO-152 	2)			

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Group I (Claims 1-27) in the reply filed on 6/28/2004 is acknowledged.

Information Disclosure Statement

2. The IDS filed 12/22/2003 and 7/15/2004 have been considered and recorded in the file.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-4, 11-15, 20, and 26-27 are rejected under 35 U.S.C. 102(e) as being anticipated by Raab (US 6,256,482).

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Regarding claim 1, Raab teaches a method of producing an amplitude modulated communications signal using an amplifier having at least one stage including a three-terminal active device 44 (fig. 6) having a signal input terminal 43A, a signal output terminal 45, and a power supply input terminal 42A, the method comprising: applying a carrier signal 43A to the signal input terminal; and applying a power supply input signal 42A to the power supply input terminal, the power supply input signal being derived at least in part from an amplitude modulation signal 42, wherein the one stage produces the amplitude modulated communications signal 48 in response to the carrier signal 43A and the amplitude modulation signal 42A, a signal level of the amplitude modulated communications signal 48 at a given instant being proportional to a signal level of the carrier signal 43A and to a signal level of the power supply input signal 42A.

Regarding claim 2, Raab further teaches that the carrier signal is angle modulated (col. 4, 53).

Regarding claim 3, Raab also teaches that an average output power of the amplitude modulated communications signal is determined at least in part

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by a signal level of the carrier signal, and amplitude modulation of the amplitude modulated communications signal is separately determined by the amplitude modulation signal (col. 6, 32-34, 40-42, 50-51).

Regarding claim 4, Raab also teaches that the power supply input signal is derived from both the amplitude modulation signal and a power level control signal (numeral 42, fig. 6).

Regarding claim 11, Raab also teaches that a final amplifier stage 61, 81 (figs. 7, 9) is coupled to an output network (not shown at 63), and further comprising maintaining a single configuration of the load network across lowest power and highest power operation (col. 6, 26-40).

Regarding claim 12, the claim is interpreted and rejected for the same reason as set forth in claim 1.

Regarding claim 13, the claim is interpreted and rejected for the same reason as set forth in claim 2.

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Regarding claim 14, the claim is interpreted and rejected for the same reason as set forth in claim 3.

Regarding claim 15, the claim is interpreted and rejected for the same reason as set forth in claim 4.

Regarding claim 20, the claim is interpreted and rejected for the same reason as set forth in claim 11.

Regarding claim 26, Raab teaches a communications apparatus (figs. 6, 9), comprising: an amplitude varying circuit 80 receiving a constant-envelope carrier signal from 79 and producing a modified constant-envelope carrier signal (to 81) in response to a power control signal V(DDRF); and an amplification chain including at least one stage 81, the amplification chain 81 receiving the modified constant-envelope carrier signal (from 80) and an amplitude modulation signal (from 74) and amplifying the modified constant-envelope carrier signal to produce a communications signal having amplitude modulation and having an average output power proportional to a signal level of the modified constant-envelope carrier

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signal 83 (also see 46, 48, fig. 6).

Regarding claim 27, the claim is interpreted and rejected for the same reason as set forth in claim 26.

Allowable Subject Matter

5. Claims 5-10, 16-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding claims 5, 16, the prior art of record fails to teach or suggest controlling the signal level of the carrier signal using an amplitude varying circuit.

6. Claims 21-25 are allowed.

Regarding claim 21, the prior art of record fails to teach passing the carrier signal through an amplitude varying block, and controlling the amplitude varying block, taking into account any known non-linearity of the same, to produce a signal input related to a desired average power of the

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communications signal, and whereby amplitude modulation is achieved independently of the amplitude varying block.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LEE NGUYEN whose telephone number is (703)-308-5249. The examiner can normally be reached on 8:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, VIVIAN CHIN can be reached on (703) 308-6739. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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LEE NGUYEN

Primary Examiner

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